

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,JPAB,EPAB,DWPI,TDBD	Porter-linda-maree.in.	1	<a href="#"><u>L16</u></a>
USPT,JPAB,EPAB,DWPI,TDBD	Muddle-andrew-gordon.in.	2	<a href="#"><u>L15</u></a>
USPT,JPAB,EPAB,DWPI,TDBD	Sarphie-david-francis.in.	8	<a href="#"><u>L14</u></a>
USPT,JPAB,EPAB,DWPI,TDBD	Burkoth-terry-lee.in.	2	<a href="#"><u>L13</u></a>
USPT,JPAB,EPAB,DWPI,TDBD	L10 and (nanosphere or microsphere or particle)	54	<a href="#"><u>L12</u></a>
USPT,JPAB,EPAB,DWPI,TDBD	L10 and (lyophilized or (spray-dried))	27	<a href="#"><u>L11</u></a>
USPT,JPAB,EPAB,DWPI,TDBD	L4 and (size or diameter or density or compact)	122	<a href="#"><u>L10</u></a>
USPT,JPAB,EPAB,DWPI,TDBD	L4 and ((densified or compact) adj particle)	0	<a href="#"><u>L9</u></a>
USPT,JPAB,EPAB,DWPI,TDBD	L4 and ((particulate pharmaceutical) adj composition)	0	<a href="#"><u>L8</u></a>
USPT,JPAB,EPAB,DWPI,TDBD	L1 and (compacting and (size reducing))	0	<a href="#"><u>L7</u></a>
USPT,JPAB,EPAB,DWPI,TDBD	L5 and ((0.1 to) adj (150))	0	<a href="#"><u>L6</u></a>
USPT,JPAB,EPAB,DWPI,TDBD	L4 and (size and density)	37	<a href="#"><u>L5</u></a>
USPT,JPAB,EPAB,DWPI,TDBD	L1 and L2	165	<a href="#"><u>L4</u></a>
USPT,JPAB,EPAB,DWPI,TDBD	L1 and ((densified or compact) adj particles)	3	<a href="#"><u>L3</u></a>
USPT,JPAB,EPAB,DWPI,TDBD	(transdermal delivery) or (needleless injection)	2834	<a href="#"><u>L2</u></a>
USPT,JPAB,EPAB,DWPI,TDBD	(pharmaceutical preparation)	22775	<a href="#"><u>L1</u></a>

LANGUAGE: ENGLISH

...ABSTRACT: cm2/s. The polydispersity and compaction of 30S subunits were observed under inactivation ionic conditions (30 mM NH4Cl at 1 mM MgCl2). The number of \*compacted\* \*particles\* correlates with the irreversible loss of biological activity, the ability of 30S subunits to bind specific tRNA.

13/3,K/9 (Item 5 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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0002217737 BIOSIS NO.: 197764066094

# **SEDIMENTATION ON THE MEMBRANE SURFACE OF A HYPER FILTRATION WATER**

## **DISTILLING APPARATUS**

AUTHOR: KHACHATURYAN A A; YUSHKEVICH E S; DZHAPAROV D

JOURNAL: Problemy Osvoeniya Pustyn' (6): p69-72 1976

ISSN: 0032-9428

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: Unspecified

...ABSTRACT: composite forces must be directed either off the membranes or tangent to their surfaces. The water flow in the chambers of the distillator must remove \*compacted\* \*particles\* from the cells and the pH of the solution under distillation must be corrected.

?ds

Set	Items	Description
S1	789	(NON-DENSE OR PARTICULATE) (S) (DENSIFIED OR COMPACTED OR - DENSE)
S2	0	S1 (S) (TRANSDERMAL OR TRANSMUCOSAL OR NEEDLELESS)
S3	0	S1 AND ((HYDRAULIC OR TABLET OR ROTARY) (W) PRESS)
S4	0	S1 AND (TRANSDERMAL OR TRANSMUCOSAL OR (NEEDLELESS (W) INJECTION))
S5	22	S1 (S) (DNA OR RNA OR VECTOR OR (NUCLEIC (W) ACID))
S6	19	S5 NOT PY>1996
S7	16	RD (unique items)
S8	0	S1 AND (PARTICLE (W) DELIVERY)
S9	3	(POWDERED (W) DRUG (W) DELIVERY)
S10	1	RD (unique items)
S11	0	(TRANSDERMAL (W) DELIVERY) AND ((COMPACTED OR DENSIFIED) (- W) (PARTICLES OR DRUGS OR PARTICULATE))
S12	13	(COMPACTED OR DENSIFIED) (W) (PARTICLES OR DRUGS OR PARTICULATE)
S13	9	RD (unique items)

?logoff

09apr04 15:22:04 User259876 Session D609.2

\$3.94 1.232 DialUnits File155

\$1.89 9 Type(s) in Format 3

\$1.89 9 Types

\$5.83 Estimated cost File155

\$1.01 0.341 DialUnits File159

\$0.78 3 Type(s) in Format 3

\$0.78 3 Types

\$1.79 Estimated cost File159

\$6.86 1.224 DialUnits File5

\$15.75 9 Type(s) in Format 3

\$15.75 9 Types

\$22.61 Estimated cost File5

\$14.74 1.504 DialUnits File73

\$13.50 5 Type(s) in Format 3

\$13.50 5 Types

\$28.24 Estimated cost File73

OneSearch, 4 files, 4.301 DialUnits FileOS

\$3.50 TELNET

\$61.97 Estimated cost of this search  
\$62.35 Estimated total session cost 4.393 DialUnits

### Status: Signed Off. (14 minutes)

```

?s s1 and (non-metal (w) carrier)
    2096 S1
        1 NON-METAL
    177578 CARRIER
        0 NON-METAL(W)CARRIER
    S9      0 S1 AND (NON-METAL (W) CARRIER)
?s s1 and (without (w) metal (w) carrier)
    2096 S1
    1456617 WITHOUT
    176819 METAL
    177578 CARRIER
        0 WITHOUT(W)METAL(W)CARRIER
    S10     0 S1 AND (WITHOUT (W) METAL (W) CARRIER)
?ds

```

Set	Items	Description
S1	2096	(TRANSDERMAL (W) DELIVERY) OR (PARTICLE (W) DELIVERY)
S2	0	S1 AND (DENSE (W) PARTICLE)
S3	11	S1 AND (DENSE OR COMPACT OR CONDENSED)
S4	6	RD (unique items)
S5	65	S1 AND (DNA OR VECTOR OR (NUCLEIC (W) ACID))
S6	0	S5 AND (MILLING OR SIEVING OR COMPACT OR DENSIFIED)
S7	2	S5 AND REVIEW
S8	2	RD (unique items)
S9	0	S1 AND (NON-METAL (W) CARRIER)
S10	0	S1 AND (WITHOUT (W) METAL (W) CARRIER)

?logout

```

02sep01 11:35:45 User259876 Session D257.2
    $1.78      0.558 DialUnits File155
        $0.60  3 Type(s) in Format  3
        $0.60  3 Types
    $2.38 Estimated cost File155
        $2.40      0.428 DialUnits File5
        $4.95  3 Type(s) in Format  3
        $4.95  3 Types
    $7.35 Estimated cost File5
        $6.17      0.726 DialUnits File73
        $4.70  2 Type(s) in Format  3
        $4.70  2 Types
    $10.87 Estimated cost File73
        OneSearch, 3 files,  1.711 DialUnits FileOS
    $0.70 TYMNET
    $21.30 Estimated cost this search
    $21.59 Estimated total session cost    1.789 DialUnits

```

### Status: Signed Off. (15 minutes)

### Status: Path 1 of [Dialog Information Services via Modem]

### Status: Initializing TCP/IP using (UseTelnetProto 1 ServiceID pto-dialog)  
Trying 3106900061...Open

DIALOG INFORMATION SERVICES

PLEASE LOGON:

\*\*\*\*\* HHHHHHHH SSSSSSSS?

### Status: Signing onto Dialog

\*\*\*\*\*

ENTER PASSWORD:

\*\*\*\*\* HHHHHHHH SSSSSSSS? \*\*\*\*\*

Welcome to DIALOG

### Status: Connected

Dialog level 01.08.22D

Last logoff: 31aug01 09:41:00

Logon file001 02sep01 11:21:27

\*\*\* ANNOUNCEMENT \*\*\*

\*\*\*

--Important Notice to Freelance Authors--

See HELP FREELANCE for more information

\*\*\*

NEW FILE RELEASED

\*\*\*EIU Business Magazines (File 622)

\*\*\*IBISWorld Market Research (File 753)

\*\*\*Investext PDF Index (File 745)

\*\*\*Daily and Sunday Telegraph (London) Papers (File 756)

\*\*\*The Mirror Group Publications (United Kingdom) (File 757)

UPDATING RESUMED

\*\*\*Delphes European Business (File 481)

\*\*\*Books In Print (File 470)

\*\*\*

RELOADED

\*\*\*Kompas Middle East/Africa/Mediterranean (File 585)

\*\*\*Kompas Asia/Pacific (File 592)

\*\*\*Kompas Central/Eastern Europe (File 593)

\*\*\*Kompas Canada (File 594)

\*\*\*CANCERLIT (File 159)

\*\*\*Information Science Abstracts (File 202)

\*\*\*New document supplier\*\*\*

IMED has been changed to INFOTRIE (see HELP OINFOTRI)

>>>Get immediate news with Dialog's First Release  
news service. First Release updates major newswire  
databases within 15 minutes of transmission over the  
wire. First Release provides full Dialog searchability  
and full-text features. To search First Release files in  
OneSearch simply BEGIN FIRST for coverage from Dialog's  
broad spectrum of news wires.

>>> Enter BEGIN HOMEBASE for Dialog Announcements <<<  
>>> of new databases, price changes, etc. <<<

\*\*\*\*

KWIC is set to 50.

HIGHLIGHT set on as '\*'

File 1:ERIC 1966-2001/Aug 17

(c) format only 2001 The Dialog Corporation

Set	Items	Description
?b 155, 5, 73		
	02sep01 11:21:50	User259876 Session D257.1
	\$0.27	0.078 DialUnits File1
	\$0.27	Estimated cost File1
	\$0.02	TYMNET
	\$0.29	Estimated cost this search
	\$0.29	Estimated total session cost 0.078 DialUnits

SYSTEM:OS - DIALOG OneSearch  
 File 155:MEDLINE(R) 1966-2001/Sep W4  
 File 5:Biosis Previews(R) 1969-2001/Aug W4  
 (c) 2001 BIOSIS  
 File 73:EMBASE 1974-2001/Aug W4  
 (c) 2001 Elsevier Science B.V.  
**\*File 73: For information about Explode feature please see Help News73.**

Set	Items	Description
?s (transdermal (w) delivery) or (particle (w) delivery)		
	15669	TRANSDERMAL
	313147	DELIVERY
	1980	TRANSDERMAL(W) DELIVERY
	119688	PARTICLE
	313147	DELIVERY
	116	PARTICLE(W) DELIVERY
S1	2096	(TRANSDERMAL (W) DELIVERY) OR (PARTICLE (W) DELIVERY)
?s s1 same (compact or densified or condensed)		
>>>Term "SAME" in invalid position		
?s s1 and (dense (w) particle)		
	2096	S1
	104450	DENSE
	119688	PARTICLE
	88	DENSE(W) PARTICLE
S2	0	S1 AND (DENSE (W) PARTICLE)
?s s1 and (dense or compact or condensed)		
	2096	S1
	104450	DENSE
	29095	COMPACT
	19643	CONDENSED
S3	11	S1 AND (DENSE OR COMPACT OR CONDENSED)
?rd		
...completed examining records		
S4	6	RD (unique items)
?t s4/3,k/all		

4/3,K/1 (Item 1 from file: 155)  
 DIALOG(R) File 155:MEDLINE(R)

10812482 99401139 PMID: 10469904  
**Optimization of a vehicle mixture for the \*transdermal\* \*delivery\* of melatonin using artificial neural networks and response surface method.**  
 Kandimalla KK; Kanikkannan N; Singh M  
 College of Pharmacy and Pharmaceutical Sciences, Florida A&M University, Tallahassee, FL 32307-3800, USA.  
 Journal of controlled release (NETHERLANDS) Aug 27 1999, 61 (1-2) p71-82, ISSN 0168-3659 Journal Code: C46  
 Contract/Grant No.: G12RR03020-13, RR, NCRR  
 Languages: ENGLISH  
 Document type: Journal Article  
 Record type: Completed

**Optimization of a vehicle mixture for the \*transdermal\* \*delivery\* of**

melatonin using artificial neural networks and response surface method.

The objective of this study was to optimize a suitable vehicle composition, using response surface method (RSM) and artificial neural networks (ANN), for the \*transdermal\* \*delivery\* of melatonin (MT). MT is a hormone produced by the pineal gland that influences mammalian sleep and reproductive patterns. A successful treatment for sleep disorders...

... first-pass metabolism, and maintain steady-state plasma MT concentrations for a required period of time. However, MT by itself can not pass through the \*dense\* lipophilic matrix of stratum corneum. Hence solvents like water (W), ethanol (E), propylene glycol (P), their binary and ternary mixtures were employed to increase MT...

4/3,K/2 (Item 2 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)

10769055 98392114 PMID: 9724902

**Proniosome based \*transdermal\* \*delivery\* of levonorgestrel for effective contraception.**

Vora B; Khopade AJ; Jain NK  
Department of Pharmaceutical Sciences, Dr. Harisingh Gour University,  
Sagar, India.

Journal of controlled release (NETHERLANDS) Jul 31 1998, 54 (2)  
p149-65, ISSN 0168-3659 Journal Code: C46

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

**Proniosome based \*transdermal\* \*delivery\* of levonorgestrel for effective contraception.**

... based transdermal drug delivery system of levonorgestrel (LN) was developed and extensively characterized both in vitro and in vivo. The proniosomal structure was liquid crystalline-\*compact\* niosomes hybrid which could be converted into niosomes upon hydration. The system was evaluated in vitro for drug loading, rate of hydration (spontaneity), vesicle size...

4/3,K/3 (Item 3 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)

07652525 93028112 PMID: 1409375

**Sonophoresis. II. Examination of the mechanism(s) of ultrasound-enhanced transdermal drug delivery.**

Bommannan D; Menon GK; Okuyama H; Elias PM; Guy RH

Graduate Group in Bioengineering, University of California, Berkeley.

Pharmaceutical research (UNITED STATES) Aug 1992, 9 (8) p1043-7,

ISSN 0724-8741 Journal Code: PHS

Contract/Grant No.: AR-19098, AR, NIAMS; HD-23010, HD, NICHD

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

We have shown previously that high-frequency ultrasound (sonophoresis) can significantly enhance the \*transdermal\* \*delivery\* of a topically applied drug in vivo and that the augmentation of transport was caused by the action of the ultrasound on the skin. However...

... structure and morphology. In the study reported here, these three key issues have been addressed using electron microscopy to follow the penetration of an electron-\*dense\*, colloidal tracer (lanthanum hydroxide; LH). Experiments have again been performed using the hairless guinea pig animal model. Colloidal LH suspensions were applied to skin sites...

4/3,K/4 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)  
(c) 2001 BIOSIS. All rts. reserv.

12369509 BIOSIS NO.: 200000123011

**Transient gene expression in pine pollen tubes following particle bombardment.**

AUTHOR: Fernando D D(a); Owens J N; Misra S  
AUTHOR ADDRESS: (a)Department of Environmental and Forest Biology, State  
University of New York, 1 Forestry Drive, Syracuse, NY, 13210\*\*USA  
JOURNAL: Plant Cell Reports 19 (3):p224-228 Jan., 1999  
ISSN: 0721-7714  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

ABSTRACT: A biolistic \*particle\* \*delivery\* system was used to genetically transform pollen tubes of three species of white pine (Pinus aristata, P. griffithii and P. monticola). The introduced plasmid DNA...

...conifers was examined. Gene expression in pollen tubes was also examined under electron microscopy where the X-glu reaction product occurred as large crystalline electron-\*dense\* precipitates in the cytoplasm.

4/3,K/5 (Item 2 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)  
(c) 2001 BIOSIS. All rts. reserv.

10793238 BIOSIS NO.: 199799414383

**Characterization of collagen isolation and application of collagen gel as a drug carrier.**

AUTHOR: Ho Hsiu-O; Lin Lun-Huei; Sheu Ming-Thau  
AUTHOR ADDRESS: Graduate Inst. Pharmaceutical Sci., Taipei Med. Coll.,  
Taipei\*\*Taiwan  
JOURNAL: Journal of Controlled Release 44 (2-3):p103-112 1997  
ISSN: 0168-3659  
RECORD TYPE: Abstract  
LANGUAGE: English

...ABSTRACT: was favorable for the digestion of porcine skin. The morphological characteristics observed by scanning electron microscopy (SEM) showed that fibril collagen, porous fibril membrane or \*dense\* membrane were all possibly formed depending on the digestion and freeze-drying media. Analysis by sodium dodecyl sulphate-polyacrylamide gel electrophoresis (SDS-PAGE) and size...

...by gelling the vehicle mixture of citric acid solution, ethanol and propylene glycol with 1% w/w of such a collagen sample was suitable for \*transdermal\* \*delivery\*.

MISCELLANEOUS TERMS: ...\*DENSE\* MEMBRANE

4/3,K/6 (Item 3 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)  
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08381630 BIOSIS NO.: 000094112134

**SONOPHORESIS II. EXAMINATION OF THE MECHANISMS OF ULTRASOUND-ENHANCED TRANSDERMAL DRUG DELIVERY**

AUTHOR: BOMMANNAN D; MENON G K; OKUYAMA K; ELIAS P M; GUY R H  
AUTHOR ADDRESS: DEP. PHARMACY PHARMACEUTICAL CHEM., UNIVERSITY CALIFORNIA,  
SAN FRANCISCO, CALIF. 94143.  
JOURNAL: PHARM RES (N Y) 9 (8). 1992. 1043-1047. 1992  
FULL JOURNAL NAME: Pharmaceutical Research (New York)  
CODEN: PHREE



RECORD TYPE: Abstract  
LANGUAGE: ENGLISH

ABSTRACT: We have shown previously that high-frequency ultrasound (sonophoresis) can significantly enhance the \*transdermal\* \*delivery\* of a topically applied drug in vivo and that the augmentation of transport was caused by the action of the ultrasound on the skin. However...

...structure and morphology. In the study reported here, these three key issues have been addressed using electron microscopy to follow the penetration of an electron-\*dense\*, colloidal tracer (lanthanum hydroxide; LH). Experiments have again been performed using the hairless guinea pig animal model. Colloidal LH suspensions were applied to skin sites...

?ds

Set	Items	Description
S1	2096	(TRANSDERMAL (W) DELIVERY) OR (PARTICLE (W) DELIVERY)
S2	0	S1 AND (DENSE (W) PARTICLE)
S3	11	S1 AND (DENSE OR COMPACT OR CONDENSED)
S4	6	RD (unique items)

?s s1 and (DNA or vector or (nucleic (w) acid))

2096	S1
1650096	DNA
172398	VECTOR
208095	NUCLEIC
3060226	ACID
182950	NUCLEIC(W)ACID

S5 65 S1 AND (DNA OR VECTOR OR (NUCLEIC (W) ACID))

?s s5 and (milling or sieving or compact or densified)

65	S5
5212	MILLING
6040	SIEVING
29095	COMPACT
119	DENSIFIED

S6 0 S5 AND (MILLING OR SIEVING OR COMPACT OR DENSIFIED)

?s s5 and review

65	S5
1165553	REVIEW

S7 2 S5 AND REVIEW

?rd

...completed examining records

S8 2 RD (unique items)

?t s8/3,k/all

8/3,K/1 (Item 1 from file: 73)

DIALOG(R)File 73:EMBASE

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11245920 EMBASE No: 2001260792

**Drug and gene delivery using electrotransfer**

SEANCE THEMATIQUE ADMINISTRATION DE MEDICAMENTS ET DE GENES PAR  
ELECTROTRANSFERT

Preat V.

V. Preat, Universite Cathol. de Louvain, Unite de pharmacie Galenique,  
Avenue Mounier, 73 UCL 7320, B 1200 Bruxelles Belgium  
Annales Pharmaceutiques Francaises ( ANN. PHARM. FR. ) (France) 2001,  
59/4 (239-244)

CODEN: APFRA ISSN: 0003-4509

DOCUMENT TYPE: Journal ; Review

LANGUAGE: FRENCH SUMMARY LANGUAGE: ENGLISH; FRENCH

NUMBER OF REFERENCES: 20

...and high voltage pulses (electroporation which permeabilizes lipid bilayers) has a potential for the administration of conventional and biotechnology-produced drugs. Iontophoresis and electroporation enhance

\*transdermal\* \*delivery\* drugs, including peptides and gonucleotides. Electrochemotherapy, i.e., combination of a systemic or local delivery of a non-permeant cytostatic drug with electroporation, kills...

DRUG DESCRIPTORS:

bleomycin--drug administration--ad; bleomycin--drug therapy--dt; bleomycin--intratumoral drug administration--tu; \*DNA\*

MEDICAL DESCRIPTORS:

lipid bilayer; biotechnology; genetic transfection; plasmid; drug delivery system; melanoma--drug therapy--dt; basal cell carcinoma--drug therapy--dt; human; \*review\*

CAS REGISTRY NO.: 11056-06-7 (bleomycin); 9007-49-2 (\*DNA\*)

8/3,K/2 (Item 2 from file: 73)

DIALOG(R)File 73:EMBASE

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10642916 EMBASE No: 2000108048

**Cutaneous vaccination: The skin as an immunologically active tissue and the challenge of antigen delivery**

Babiuk S.; Baca-Estrada M.; Babiuk L.A.; Ewen C.; Foldvari M.

M. Foldvari, College of Pharmacy/Nutrition, University of Saskatchewan, 110 Science Place, Saskatoon, Sask. S7N 5C9 Canada

AUTHOR EMAIL: foldvari@duke.usask.ca

Journal of Controlled Release ( J. CONTROL. RELEASE ) (Netherlands) 15

MAY 2000, 66/2-3 (199-214)

CODEN: JCREE ISSN: 0168-3659

PUBLISHER ITEM IDENTIFIER: S0168365999002746

DOCUMENT TYPE: Journal; Review

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 136

...by intramuscular administration. Unfortunately this is often traumatic, especially in infants. Thus, if it was possible to replace intramuscular immunization by mucosal (oral/intranasal) or \*transdermal\* \*delivery\* it may be possible to both enhance mucosal immunity as well as improve overall compliance rates. The transdermal route has been used by the pharmaceutical...

...vaccines. However, there is a greater challenge to delivering large molecular weight molecules through the skin due to size, charge and other physicochemical properties. This \*review\* will describe the recent advances that have been made in dermal and topical delivery as related to vaccines. Copyright (C) 2000.

DRUG DESCRIPTORS:

antigen--pharmaceutics--pr; antigen--drug administration--ad; virus vaccine--pharmaceutics--pr; virus vaccine--drug administration--ad; liposome--pharmaceutics--pr; \*DNA\* vaccine--pharmaceutics--pr; \*DNA\* vaccine--drug administration--ad; polymer--pharmaceutics--pr; polylactic acid--pharmaceutics--pr; polyglactin--pharmaceutics--pr; polycation--pharmaceutics--pr; plasmid \*DNA\*--pharmaceutics--pr; plasmid \*DNA\*--drug administration--ad

MEDICAL DESCRIPTORS:

drug delivery system; molecular weight; poliomyelitis; measles; immune response; confocal microscopy; Langerhans cell; technique; microencapsulation; human; nonhuman; \*review\*; priority journal  
?ds

Set	Items	Description
S1	2096	(TRANSDERMAL (W) DELIVERY) OR (PARTICLE (W) DELIVERY)
S2	0	S1 AND (DENSE (W) PARTICLE)
S3	11	S1 AND (DENSE OR COMPACT OR CONDENSED)
S4	6	RD (unique items)
S5	65	S1 AND (DNA OR VECTOR OR (NUCLEIC (W) ACID))
S6	0	S5 AND (MILLING OR SIEVING OR COMPACT OR DENSIFIED)
S7	2	S5 AND REVIEW
S8	2	RD (unique items)

compound--ec; polymer

MEDICAL DESCRIPTORS:

\*\*gene\* expression

article; \*biolistic\* transformation; cell transformation; environmental factor; genome; immunoblotting; plant cell

18/3,K/76 (Item 10 from file: 73)

DIALOG(R)File 73:EMBASE

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06344554 EMBASE No: 1996005007

**\*Particle\* bombardment drastically increases the infectivity of cloned  
\*DNA\* of zucchini yellow mosaic potyvirus**

Gal-On A.; Meiri E.; Huet H.; Hua W.J.; Raccach B.; Gaba V.  
Department of Virology, Agricultural Research Organization, Volcani  
Center, PO Box 6, Bet Dagan 50-250 Israel  
Journal of General Virology ( J. GEN. VIROL. ) (United Kingdom) 1995,  
76/12 (3223-3227)  
CODEN: JGVIA ISSN: 0022-1317  
DOCUMENT TYPE: Journal; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

**\*Particle\* bombardment drastically increases the infectivity of cloned  
\*DNA\* of zucchini yellow mosaic potyvirus**

An infectious full-length cDNA clone of the \*RNA\* genome of the potyvirus zucchini yellow mosaic virus (ZYMV) was constructed under the control of the cauliflower mosaic virus 35S promoter. All squash, cucumber, melon and watermelon plants inoculated with the cloned cDNA of ZYMV by \*particle\* bombardment become infected. Bombardment technology is 10sup 6-fold more effective than mechanical inoculation. Due to the great increase in efficiency, ineffective constructs now became...

...an addition of 127 nucleotides at the 5' end of the viral cDNA; uncapped transcripts), and the infectivity of capped-transcripts was maximized. Inoculation by \*particle\* bombardment produced visual symptoms rapidly (3-4 days), allowing the detection of viral coat protein and virions after 2 and 3 days in systemically infected...

DRUG DESCRIPTORS:

coat protein--endogenous compound--ec; complementary \*dna\*

MEDICAL DESCRIPTORS:

\*\*biolistic\* transformation; \*mosaic virus; \*virus infectivity  
?ds

Set	Items	Description
S1	0	(TRANSDERMAL (W) DELIVERY) AND (NEEDLELESS (W) INJECTION)
S2	1830	(TRANSDERMAL (W) DELIVERY)
S3	732	(NEEDLELESS (W) INJECTION) OR (BIOLISTIC)
S4	0	S2 AND S3
S5	0	S2 AND (DENSIFIED (W) PARTICLE?)
S6	0	S2 AND (COMPACT (W) PARTICLE?)
S7	0	S3 AND (COMPACT (W) PARTICLE?)
S8	254	(S2 OR S3) AND (PARTICLE?)
S9	39	S8 AND (COMPACT OR SIZE)
S10	24	RD (unique items)
S11	10	S10 NOT PY>1996
S12	128	S8 NOT PY>1996
S13	92	RD (unique items)
S14	0	S13 AND (LYOPHILIZED OR (SPRAYED (W) DRIED))
S15	0	S13 AND (FREEZED-DRIED)
S16	0	S13 AND (MILLING OR SIEVING)
S17	14	S13 AND (PEPTIDE OR PROTEIN)
S18	76	S13 AND (DNA OR RNA OR GENE)
S19	6	S18 AND (DIAMETER OR DENSITY)
S20	0	S18 AND (PHARMACEUTICAL (W) COMPOSITION)

?logoff

08dec00 17:48:41 User259876 Session D162.2  
\$4.70 1.468 DialUnits File155  
\$5.80 29 Type(s) in Format 3  
\$5.80 29 Types  
\$10.50 Estimated cost File155  
\$13.15 2.349 DialUnits File5  
\$99.00 60 Type(s) in Format 3  
\$99.00 60 Types  
\$112.15 Estimated cost File5  
\$11.73 1.380 DialUnits File73  
\$39.95 17 Type(s) in Format 3  
\$39.95 17 Types  
\$51.68 Estimated cost File73  
OneSearch, 3 files, 5.197 DialUnits FileOS  
\$1.55 TYMNET  
\$175.88 Estimated cost this search  
\$176.30 Estimated total session cost 5.315 DialUnits

### Status: Signed Off. (32 minutes)